

Listing of the claims

1-34. (Cancelled)

- 35. (Previously presented) A method for forming a macroscopic molecular array of tubular carbon molecules, said method comprising the steps of:
 - a) providing a nanoscale array of microwells on a substrate;
 - b) depositing a metal catalyst in each of said microwells; and
 - c) directing a stream of hydrocarbon or CO feedstock gas at said substrate under conditions that effect growth of single-wall carbon nanotubes from each microwell, and
 - d) applying an electric field in the vicinity of said substrate to assist in the alignment of said nanotubes growing from said microwells.

36-162 (Cancelled)

- 163. (Currently Amended). A method for forming a macroscopic molecular array of single-wall carbon nanotubes comprising:
 - (a) providing an array of a plurality of metal catalysts on a substrate; and
 - (b) directing a stream of carbon containing feedstock gas at the substrate under conditions for growing single-wall carbon nanotubes from at least one of the plurality of the metal catalysts; and
 - (c) applying an electric field to the substrate.
- 164. (Previously presented) The method of claim 163, wherein the carbon containing feedstock gas comprises a gas selected from the group consisting of hydrocarbons, CO, and combinations thereof.
- 165. (Previously presented) The method of claim 163 wherein the array of the plurality of metal catalysts are formed by depositing catalysts in an array of microwells on the substrate.

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166. (Previously presented) The method of claim 165 further comprising producing the substrate with an array of the microwells.

- 167. (Cancelled)
- 168. (Previously presented) The methods of claim 163 wherein the substrate comprises a substance selected from the groups consisting of silicon, silicon dioxide and combinations thereof.
- 169. (Previously presented) The method of claim 165 wherein the catalysts are in the form of pre-formed nanoparticles.
- 170. (Previously presented) The method of claim 165 wherein the substrate comprises at least about one million microwells.